

MULTILAYER OPTICAL RECORDING AND REPRODUCING DEVICE

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 Inventor: SASAKI HIROKO
 Applicant: OLYMPUS OPTICAL CO
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Abstract of JP2003099975

PROBLEM TO BE SOLVED: To provide a multiplayer optical recording and reproducing device which can make the convergence position of a reflected light from a multiplayer optical disk coincide with the central position of a point-detecting mechanism by scanning a detected light quantity maximum position where the detected light quantity of the reflected light from the multiplayer optical disk becomes maximum. **SOLUTION:** In this multiplayer optical recording and reproducing device provided with the point-detecting mechanism comprising a pinhole 9 which is converged by the reflected light from one of the recording layers of the multiplayer optical disk 8 through a collimator lens to extract components corresponding to the recording layer and a PD 11 which detects the components extracted by the pinhole 9 as a signal light and an actuator 13 which moves the point-detecting mechanism in the directions of X and Y in the face crossing the optical axis of the signal light at the right angle, the detected light quantity maximum position where the detected light quantity of reflected light which changes according to the relation between the convergence position of the reflected light and the point-detecting mechanism becomes maximum is scanned, and the point-detecting mechanism is moved to the detected light quantity maximum position to make the convergence position of the reflected light coincide with the central position of the point-detecting mechanism.

